
Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	http://www.glencoe.com
Title:	BASIC TECHNICAL DRAWING		
Author:	Spencer, et al	Copyright:	2004
ISBN:	0078457483	Course/Content Area:	DRAFTING
Intended Grade or Level:	9-12	Readability Level:	9 Fry
List Price:	N/A	Lowest Wholesale Price:	45.99

Level of Accommodations (Level One, Two or Three)

If Level Two or Three, please provide rationale for not meeting Level One Compliance: The cost of compliance at any level is too high given the low enrollment in this curriculum area.

FEATURES*

***DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

Content

Basic Technical Drawing presents all of the fundamental concepts of an introductory drafting course and covers the latest ANSI Standards. The program covers board drafting techniques, introductory CAD techniques, freehand sketching, drafting standards, and the manufacturing process.

Student Experiences

Students who use *Basic Technical Drawing* are actively involved in learning and practicing their drafting skills when they solve all the problems at the end of each Chapter. The problems come in varied levels of difficulty, providing students a chance to demonstrate their drafting skills. Career Links at the beginning of each chapter open discussion of a career. Students will gain insight how their drafting skills apply to the real world.

Assessment

Basic Technical Drawing provides numerous opportunity for students to self-assess and teachers to evaluate learning. Teachers love the volume of problems for students to solve by drawing at the end of each chapter. For more formal assessment, teachers have access to Chapter tests and answers in the Instructor Resource Guide.

Organization

Basic Technical Drawing has 25 Chapters, followed by Exploring Engineering Opportunities and Greatest Engineering Achievements of the 20th Century. Each of the 25 Chapters opens with clearly defined Important Terms and Chapter Objectives. The reading context frequently refers to the line drawing illustrations to model what the reading says. Every Chapter ends with Problems, a minimum of 6 pages of problems for students to draw applying the drafting skills they have learned in this Chapter. The four-color Exploring Engineering Opportunities near the end of the text provides Career Links for students to consider as they think of jobs in their future. The book ends with an appendix of drawing abbreviations used in drafting, symbols used in drafting, a complete Glossary and Index.

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Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

Free, 1 Per Teacher: Instructor Resource Guide

- **Available Ancillary Materials**

All Items Listed Above as Gratis Items

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

****DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

Research Data

Basic Technical Drawing, in its eighth edition, is field tested in the classroom annually. Feedback and suggestions from instructors helped determine changes made in this most current edition. Every problem in the book has been worked independently by qualified drafting instructors. The text content has been reviewed for accuracy, relevance in today's drafting workplace, and level appropriateness.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool Technology Education



Title: Basic Technical Drawing		\$45.99	
Publisher: Glencoe McGraw-Hill			
Item Evaluated: Text, Instructor Resource Guide			
Copyright Date: 2004		Evaluator: Kay Turner	
Content Level: 9-12		Date of Evaluation 7/29/03	
Level of Alternative Format	Level 1 – Full Compliance	Level 2 – Provisional Compliance	Level 3 – Marginal Compliance
This section completed by Exceptional Children Services			

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions . They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:	
<input checked="" type="checkbox"/> Recommended by reviewers to State Textbook Commission	
<input type="checkbox"/> Not recommended by reviewers to State Textbook Commission	

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool Technology Education



Title: Basic Technical Drawing		Publisher Glencoe McGraw-Hill
Technology Management Summary Data:	20 possible points	____0__ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	40 possible points	____0____ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	20 possible points	____18 points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	__41____ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	____28____ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	____20__ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living

Electronic Instructional Media Review Form

Stand Alone/Independent or Integrated Software for Technology Education



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____		
Windows	Primary	Individual	Stand Alone/Independent	_____ single copy		_____ site license
Macintosh	Intermediate	Small Group	Integrated	_____ network version		_____ school version
CD-ROM	Middle	Large Group	Supplemental	_____ lab pack of ____ copies		_____ online
DVD	High		In lieu of basal text			
Sound						
Other						

If other, explain
No CD Included

Type of Software: Check all that apply	_____ Simulation	_____ Management	_____ Interdisciplinary	_____ Problem Solving	_____ Tutorial
_____ Exploratory	_____ Creativity	_____ Drill and Practice	_____ Critical Thinking	_____ Utility	_____ x_Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	
Allows students to exit and resume at a later time.	
Keeps a students performance record, where needed.	
Allows control of various aspects of the software (e.g., turning sound off).	
Allows for printed reports.	
Comments:	Total

Presentation/Interface	Rating
Presents material in an organized manner.	
Has consistent, easy-to-use, on-screen instructions.	
Has developmentally correct presentation format.	
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	
Accessible for special needs students.	
Runs smoothly, without long delays.	
Presents easy-to-view text and graphics.	
Presents easy-to-hear and understand sounds.	
Avoids unnecessary screens, sounds, and graphics.	
Provides immediate, appropriate feedback.	
Comments:	Total

Content—Technology Education	Rating
Nature of Technology	4
Technology and Society	4
Design	4
Abilities for a Technological World	3
The Design World	3
Comments:	Total 18

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	3
Engages Students	3
Develops Technology Ideas	3
Promotes Student Thinking	3
Assesses Student Progress	3
Enhances The Learning Environment	3
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	3
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	3
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	3
Includes activities and opportunities for integration of technology.	3
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	3
Differentiation techniques and activities suggested.	4
Comments:	Total 41

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	2
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	3
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	3
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	3
Student materials seem durable and conducive to daily use.	3
Includes sufficient glossary, index and appendices.	3
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	3
Comments:	Total 28

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	3
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	3
Extension activities including adaptations and accommodations for students with special needs.	4
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	3
Suggestions are made for integration of themes and /or interdisciplinary instruction.	3
Integration opportunities suggested and examples given.	3
Teacher resources are available online.	1
Online resources available – Repeat of information in text.	0
Online resources available – Practice skills only.	0
Online resources available – New application materials.	0
Comments:	Total 20

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable